WHAT IS CLAIMED IS:

- 1. A negative resist composition comprising:
- (A) an alkali-soluble resin;
- (B-1) a cross-linking agent capable of cross-linking with the alkali-soluble resin (A) by the action of an acid, in which the cross-linking agent is a phenol compound containing: in the molecule one or more benzene rings; and at least two cross-linking groups bonded to any of the benzene rings, the cross-linking group being a group selected from the group consisting of a hydroxymethyl group, an alkoxymethyl group and an acyloxymethyl group;
- (B-2) a cross-linking agent capable of cross-linking with the alkali-soluble resin (A) by the action of an acid, in which the cross-linking agent contains at least two groups selected from the groups represented by the following formula (1) and represented by the following formula (2); and
- (C) a compound capable of generating an acid upon irradiation with an actinic ray or radiation:

$$N-CH_2-O-R_3$$
 (1)

$$CH_2-O-R_4$$
 $-N$
 CH_2-O-R_5
(2)

wherein R₃ represents a hydrogen atom, an alkyl group, or an

alkylcarbonyl group; R_4 and R_5 each represent a hydrogen atom, an alkyl group or an alkylcarbonyl group.

2. The negative resist composition as described in claim 1, wherein the alkali-soluble resin (A) contains a repeating unit represented by the following formula (3):

wherein A represents a hydrogen atom, an alkyl group, a halogen atom, or a cyano group; R_1 and R_2 each represent a hydrogen atom, a halogen atom, an alkyl group, an alkenyl group, a cycloalkyl group, an aryl group, an aralkyl group, an alkoxy group or an alkylcarbonyloxy group; n represents an integer of 1 to 3.

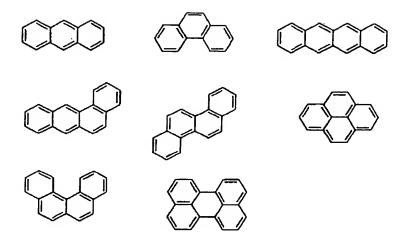
- The negative resist composition as described in claim
 which further comprises (D) a nitrogen-containing basic compound.
- 4. The negative resist composition as described in claim
 1, wherein the alkali-soluble resin (A) contains at least one
 repeating unit selected from repeating units represented by
 the following formulae (4), (5) and (6):

$$(CH_2 - C)$$
 R_{15}
 R_{14}
 R_{12}
 R_{13}
 R_{12}
 R_{13}
 R_{14}
 R_{15}
 R_{15}

$$\begin{array}{c}
\left(\begin{array}{c}
A \\
CH_{2}-C \\
\end{array}\right) \\
\left(\begin{array}{c}
R_{101} \\
a\end{array}\right)_{a} \\
\left(\begin{array}{c}
R_{102} \\
\end{array}\right)_{b} \\
\left(\begin{array}{c}
R_{105} \\
\end{array}\right)_{e}
\end{array}$$
(5)

wherein represents a group selected from any of the

following structures;



A has the same meaning as in formula (3); X is a single bond, -COO-, -O-, or $-\text{CON}(R_{16})$ -; R_{16} represents a hydrogen atom, or an alkyl group; R_{11} to R_{15} each represent the same meaning as R_1 in formula (3); R_{101} to R_{106} each represent a hydroxyl group, a halogen atom, an alkyl group, an alkoxy group, an alkylcarbonyloxy group, an alkylsulfonyloxy group, an alkenyl group, an aryl group, an aralkyl group, or a carboxyl group; a to f each represent an integer of from 0 to 3.

- The negative resist composition as described in claim
 which further contains a surfactant.
- 6. The negative resist composition as described in claim 2, wherein the alkali-soluble resin (A) contains the repeating unit represented by the formula (3) in an amount of 50 to 100 mole %.
- 7. The negative resist composition as described in claim 4, wherein the alkali-soluble resin (A) contains at least one

repeating unit selected from repeating units represented by the formulae (4), (5) and (6) in an amount of 3 to 50 mole %.

- 8. The negative resist composition as described in claim 1, wherein the cross-linking agent (B-1) is a phenol derivative having: a molecular weight of 2,000 or below; 3 to 5 benzene rings per molecule; and at least two cross-linking groups per molecule, in which the cross-linking group is a group selected from a hydroxymethyl group, an alkoxymethyl group or an acyloxymethyl group, and the cross-linking group is bonded to any of the benzene rings.
- 9. The negative resist composition as described in claim 1, wherein the cross-linking agent (B-1) is a phenol derivative having: 1 to 2 benzene rings per molecule; and at least two cross-linking groups per molecule, in which the cross-linking group is a group selected from a hydroxymethyl group, an alkoxymethyl group or an acyloxymethyl group, and the cross-linking group is bonded to any of the benzene rings.
- 10. The negative resist composition as described in claim
 1, wherein the cross-linking agent (B-2) includes one of a
 compound or resin containing a melamine skeleton, a compound
 or resin containing an urea skeleton, a compound or resin
 containing an imidazolidine skeleton, and a compound or resin

containing a glycoluril skeleton.

- 11. The negative resist composition as described in claim 1, which comprises the cross-linking agent (B-1) in a proportion of 0.5 to 50 % by weight, to the total solid content in the negative resist composition.
- 12. The negative resist composition as described in claim 1, which comprises the cross-linking agent (B-2) in a proportion of 0.5 to 50 % by weight, to the total solid content in the negative resist composition.
- 13. The negative resist composition as described in claim 1, wherein the ratio between the cross-linking agents (B-1) and (B-2) is from 3/97 to 97/3 by mole.
- 14. A method of forming a resist pattern, which comprises: forming a resist film including the negative resist composition described in claim 1; irradiating the resist film with an actinic ray or radiation; and developing the irradiated resist film.